

ABSTRACT OF THE DISCLOSURE

A Cooperative Help Assistance (CHA) system and method provide real-time user assistance for one or more windows-based Graphic User Interface (GUI) applications or a single application's different subsections such as web pages, running concurrently in any operating system. The CHA System enables the development of an informative assistance object independently from the original source code or development environment of the target Host Application. The assistance object can be selected by any number of user interfaces from sophisticated inference driven interactive interface search tools or categorized lists. By intercepting and monitoring user actions on a Host Application, the CHA system performs intelligent assistance in the context of the target host application program. Utilizing a Host Application Model, the CHA System and method dynamically assemble many elements in real-time or just-in-time to produce assistance sequences or elements very efficiently without having to code every interface path permutation. Paths can be dynamically generated from the Host Application Model, which enables a real-time module to offer intelligent, contextual assistance as well as real-time construction of automated, accelerated CHA Sequences or Procedures that require little or no user interaction. All assistance and information are processed and expressed by an extensive multitasking, multimedia subsystem for two dimensional (2D) and real-time three-dimensional (3D) application interfaces, which greatly enhances and extends the effectiveness of any explanation or material expression. The production of Assistant Sequences is facilitated by the Host Application Model and 2D and 3D GUI "drag and drop" interface tools.